

141

# E.B.U. REVIEW

## *PART A - TECHNICAL*

Published bimonthly by the Technical Centre of the European Broadcasting Union (E.B.U.)

---

### *INDEX OF CONTENTS*

1966

Numbers 95 to 100

(February, April, June, August, October, December)

## ARTICLES

CONDAMINES R.	Comparison of directional localisation with monaural and binaural hearing . . . . .	96- 64
FOSTER M.G.	The sound and television broadcasting arrangements for the World Cup Football Championship, 1966 . . . . .	99-186
GELUK J.J.	The introduction of stereophonic broadcasting in the Netherlands . . . . .	97-101
GENTILE G.	Field-strength measurements at frequencies in excess of 30 Mc/s - The method used at the RAI's Monitoring Station at Monza . . . . .	97- 94
GRESSMANN R. and von RAUTENFELD F.	The African LF/MF Broadcasting Conference . . . . .	100-251
HABERKANT E. and VOGT K.	Measurement of ionospheric cross-modulation affecting two high-power LF broadcast transmitters . . . . .	98-154
HARRISON W.L.	Broadcasting House, Wellington, New Zealand . . . . .	98-175
HÜGL K.	Low-power medium-wave broadcasting transmitters in the Austrian transmitter network . . . . .	95- 17
In der SMITTEN F.J. and LEHMANN R.	The influence of scene lighting on the transmission characteristic of an electronic colour camera . . . . .	96- 52
LACHARNAY S.	New HF curtain aerials at Issoudun, France . . . . .	98-142
MERCIER C.	Some problems posed by the use of film in television operations . . . . .	95- 2
MIRZWINSKI H.	Automation of master switching systems . . . . .	97-107
van der HEIDE H.J. and GELUK J.J.	Distribution of monophonic and stereophonic audio signals on television links . . . . .	96- 46
RAINER P.	A slow-motion television tape-recorder . . . . .	100-240
van MAAREN A.	Editing of audio tape recordings without splicing . . . . .	100-244
Editorial, G. HANSEN	Colour television in Europe . . . . .	98-138
Editorial, G. HANSEN	Open letter to a Technical Director . . . . .	100-238
E.B.U., Technical Centre	Meeting of the C.C.I.R. XIth Plenary Assembly . . . . .	99-197

---

*The numbers of the issues are printed in bold type and the page numbers in Roman type.*



## INTERNATIONAL NEWS

Calendar of international meetings dealing with sound and television broadcasting engineering . . . . .	95- 34; 99-236
I.T.U. : Implementation of the recommendations of the Panel of Experts . . . . .	95- 23
Regional Special Agreement for gap-filling television transmitters . . . . .	96- 69
The African LF/MF Broadcasting Conference . . . . .	99-215; 100-251
C.C.I.R. : Meeting of the C.C.I.R. XIth Plenary Assembly, Oslo :	
Detailed Report . . . . .	99-197
Study Group X (Broadcasting) . . . . .	98-164
Study Group XI (Television) and the C.M.T.T. . . . .	98-166
New Director of the C.C.I.R. . . . .	99-214
C.C.I.T.T. : Interim meeting of Study Group XV (Transmission systems) . . . . .	100-259
I.E.R.B. : New Technical Standards (Series A ) . . . . .	95- 24
List of Broadcasting Stations . . . . .	95- 27
Third Edition of the Rules of Procedure . . . . .	96- 67
Preparation for the African LF/MF Broadcasting Conference . . . . .	96- 67
Documents relating to HF broadcasting . . . . .	97-114
C.I.S.P.R. : Working Group meetings in Prague . . . . .	98-162
I.E.C. : Thirtieth General Meeting . . . . .	95- 21
Meeting of Technical Committee 29 (Electroacoustics) . . . . .	99-213
I.S.O. : Meeting of Technical Committee ISO/TC 36 (Cinematography) . . . . .	95- 22
Meeting of Technical Committee ISO/TC 43 (Acoustics) . . . . .	99-214
U.R.S.I. : Fifteenth General Assembly . . . . .	100-259
Offset in UHF Television, Meeting at Karlsruhe, November, 1966 . . . . .	100-274
Expansion of television during 1965 . . . . .	96- 89
« Pirate » broadcasting stations . . . . .	95- 33; 96- 80; 97-125; 98-174; 100-274

### AUSTRALIA

Expansion of television services . . . . .	99-215
First direct television transmission between Australia and the United Kingdom . . . . .	100-261

### AUSTRIA

Low-power medium-wave broadcasting transmitters in the Austrian transmitter network . . . . .	95- 1/
---	--------

### BELGIUM

New Director General of the Engineering Division of the R.T.B. . . . .	100-261
Westdeutscher Rundfunk opens a studio in Brussels . . . . .	97-114

**CANADA**

The new Montreal Broadcasting House . . . . .	100-262
---	---------

**DENMARK**

Extensions of Danmarks Radio's television production facilities . . . . .	97-111
Study Session on colour films and colour television . . . . .	100-263

**FINLAND**

Extension of Yleisradio's technical facilities during 1965 . . . . .	95- 28
Yleisradio's new television and sound-broadcasting centre . . . . .	98-168
Radio-interference counter-measures . . . . .	98-169

**FRANCE**

Progress of equipment for stereophony . . . . .	100-264
New HF curtain aerials at Issoudun . . . . .	98-142
Completion of the final section of the O.R.T.F.'s radio-relay network . . . . .	95- 29
OB units for colour television . . . . .	100-264
Tests of special films for colour television . . . . .	96- 70
« Tête de bois en plein ciel » . . . . .	96- 69
International Television OB Competition . . . . .	97-116
Eight International Sound Festival . . . . .	96- 71

**GERMANY (Federal Republic)****Sound Broadcasting**

LF and MF transmitters . . . . .	97-117;	98-169
Shortwave transmitters . . . . .		95- 31
New sound broadcasting studios (Kiel, Heidelberg) . . . . .	96- 71;	97-116
Stereophonic broadcasting . . . . .	97-117;	100-267
New sound broadcasting OB vehicles . . . . .		95- 30
Receivers: the stereophonic receiver market . . . . .		97-117
the type-approval of broadcast receiver . . . . .		99-218
A central office for the Deutsche Welle and the Deutschlandfunk . . . . .		98-170
Courses with the Westdeutscher Rundfunk . . . . .		97-117

**Television**

The Third Television Programme . . . . .		95- 30
UHF television transmitters . . . . .	95- 31;	96- 71
D.B.P. mobile reserve transmitters . . . . .	97-117;	100-266
Television rebroadcast transmitter energised by fuel cells . . . . .		95- 30
Towers and aerial masts . . . . .	96- 71;	99-217;
		100-266
The radio link between Berlin and the Federal Republic . . . . .		98-170
New production centres: Mainz and Bonn (Z.D.F), Cologne (W.D.R.) . . . . .	97-116;	98-169;
		100-267
The Zweites Deutsches Fernsehen purchases film studios at Munich . . . . .		99-217
Television coverage of the parliamentary election in the Federal Republic, September 1965 . . . . .	95- 30;	97-117;
		100-265
Colour television . . . . .		98-170
Television receivers . . . . .		98-170
Meeting of the Fernseh-Technische Gesellschaft . . . . .	97-118;	99-218
Library opened in Broadcasting House, Berlin . . . . .		95- 31
The sound archives of the Bayerischer Rundfunk . . . . .		97-118
Extension of the installations at Raisting . . . . .		99-219
Radio-astronomy . . . . .		99-219



**GERMANY (Eastern)**

New East-German television stations and towers . . . . .	96- 71
--	--------

**ITALY****Sound Broadcasting**

Automatic operation of medium-wave transmitting stations . . . . .	96- 73
Short-wave broadcasting . . . . .	96- 74
Reserve programme-circuits by rebroadcast links . . . . .	96- 74
New News Department installations at Trento . . . . .	96- 73
Tenth anniversary of the RAI's experimental-music studio . . . . .	96- 74

**Television**

Television production facilities . . . . .	96- 74
German-language television programmes for Alto Adige . . . . .	96- 74
Prefabricated buildings for rebroadcast transmitters . . . . .	98-170
RAI representation in Latin America . . . . .	99-219

**JAPAN**

The N.H.K.'s new Tokyo Broadcasting Centre . . . . .	97-118
The Asahi Broadcasting Corporation's new Broadcasting House at Osaka . . . . .	99-219
An image-orthicon camera tube using a multi-alkaline photo-emissive surface . . . . .	97-120
Vibration-damper for helicopter-borne television cameras . . . . .	100-267

**KENYA**

A new medium-wave broadcasting station at Nairobi . . . . .	95- 31
Broadcast coverage of the East African Safari Motor Rally . . . . .	97-121

**NETHERLANDS**

The introduction of stereophonic broadcasting in the Netherlands . . . . .	97-101
Sound broadcasting : Third Programme . . . . .	95- 32
Extension of the Second Television Programme . . . . .	98-173
Experimental colour-television transmissions . . . . .	100-268
The broadcast coverage of the wedding of the Crown Princess of the Netherlands . . . . .	96- 76
A new sound control room for regional theatre broadcasts . . . . .	97-122
The N.R.U. music and recording libraries . . . . .	98-171
Concert organ acquired by the N.R.U. . . . .	95- 32
New concert-hall complex at Rotterdam . . . . .	99-221
Sound broadcasting and television training centre at Hilversum . . . . .	96- 75
New building for the N.R.U./N.T.S. Laboratories at Hilversum . . . . .	100-268

**NEW ZEALAND**

Broadcasting House, Wellington . . . . .	98-175
--	--------

**PORTUGAL**

Televising the inauguration of the Salazar Bridge . . . . .	100-268
---	---------

**REPUBLIC OF SOUTH AFRICA**

New approach to transmitter maintenance . . . . .	99-222
---	--------

**SWITZERLAND**

Broadcast transmitter powered by a fuel cell . . . . .	97-123
--	--------

**TUNISIA**

A live transmission from Kairuan . . . . .	96- 77
Inauguration of the television service . . . . .	100-269

**UNITED KINGDOM**

White Paper on Broadcasting . . . . .	100-272
Extension of the B.B.C. television and VHF sound broadcasting networks . . . . .	96- 79
B.B.C. stereophonic broadcasting . . . . .	98-173
Extension of I.T.A. coverage . . . . .	96- 79; 98-173
Survey of engineering in the Independent Television service . . . . .	100-270
Appointment of a new Chief Engineer of the I.T.A. . . . .	96- 80
Sound and television broadcasting arrangements for the 1966 World Cup football competition . . . . .	97-123; 99-186
New A.B.C. Television OB vehicles . . . . .	99-223
First direct television transmission between Australia and the United Kingdom . . . . .	100-261
Conference on the Automatic Operation and Control of Broadcasting Equipment . . . . .	100-272

**UNITED STATES**

Progress with « Pay-Television » . . . . .	100-273
Receiver sales in 1965 . . . . .	95- 32

**YUGOSLAVIA**

The reconstruction of the broadcasting centre at Skopje . . . . .	98-174; 99-225
---	----------------

**SOUND AND TELEVISION BROADCASTING STATIONS IN THE EUROPEAN AREA**

Conditions in the long- and medium-wave spectrum :

at 1st January, 1966 . . . . .	95- 35
at 1st March, 1966 . . . . .	96- 81
at 1st May, 1966 (with a chart showing the situation in the spectrum) . . . . .	97-126
at 1st July, 1966 . . . . .	98-184
at 1st September, 1966 . . . . .	99-227
at 1st November, 1966 (with a chart showing the situation in the spectrum) . . . . .	100-280



### Conditions in the Band-II spectrum (VHF/FM sound broadcasting) :

at 1st January, 1966 . . . . .	95- 35
at 1st March, 1966 . . . . .	96- 81
at 1st May, 1966 . . . . .	97-126
at 1st July, 1966 . . . . .	98-184
at 1st September, 1966 . . . . .	99-227
at 1st November, 1966 . . . . .	100-280

### Conditions in the Bands I, III and IV/V spectrum (television broadcasting) :

at 1st January, 1966 . . . . .	95- 35
at 1st March, 1966 . . . . .	96- 81
at 1st May, 1966 . . . . .	97-126
at 1st July, 1966 . . . . .	98-184
at 1st September, 1966 . . . . .	99-227
at 1st November, 1966 . . . . .	100-280

---

## SOME RECENT PUBLICATIONS AND NOTEWORTHY ARTICLES

Recent publications . . . . .	96- 88; 100-275
Noteworthy articles . . . . .	95- 36; 96- 82; 97-127; 98-179; 99-230; 100-276

---

## E.B.U. ACTIVITIES

### Technical Committee

Eighteenth meeting, Luxembourg, April, 1966 . . . . .	97-133
---	--------

### Bureau of the Technical Committee

Thirty-third meeting, Annecy, September, 1966 . . . . .	99-235
---	--------

### Working Parties

#### Working Party A (Amplitude-modulation sound broadcasting) :

Paris meeting, December, 1965 . . . . .	95- 41
Brussels meeting, May, 1966 . . . . .	97-136

#### Working Party B (Ionospheric propagation on kilometric, hectometric and metric (Band I) waves) :

Hambourg meeting, March, 1966 . . . . .	96- 91
Meeting of mathematicians, Paris, October, 1966 . . . . .	100-281

Working Party G (Recording of sound and pictures) :	
Sub-groups G2 and G3, Munich, January, 1966 . . . . .	95- 43
Working Party L (International Network Operations) :	
Executive Group, Paris, March, 1966 . . . . .	96- 91
Working Party M (International network transmission) :	
Coordinating Committee, Brussels, September, 1966 . . . . .	99-234
Sound Sub-group, Munich, November, 1966 . . . . .	100-282
Working Party S (Stereophonic broadcasting and multiple-modulation systems) :	
« Two sound channels in television » Sub-group, Brussels, October, 1966 . . . . .	100-283
« Audio-frequency » Sub-group, Paris, November, 1966 . . . . .	100-283
Ad-hoc Group on Colour Television :	
Rome meeting, December, 1965 . . . . .	95- 40
Paris meeting, February, 1966 . . . . .	96- 90
Demonstrations, Rome, May, 1966 . . . . .	97-134
Meetings of Engineers-in-Charge of E.B.U. Members' Receiving Stations :	
Nuremberg, January, 1966 . . . . .	95- 42
Monza, October, 1966 (meeting of some Engineers-in-Charge) . . . . .	100-281
Meeting of E.B.U. and O.I.R.T. ionospheric-propagation specialists . . . . .	96- 90

## Eurovision

The World Cup Football Championship, 1966 . . . . .	99-228
Extension of the E.B.U Technical Centre in Brussels . . . . .	95- 20